

11. TITLE

ROLLER FOR CONVEYING A WEB OR SHEET OF PAPER IN PAPER
CONVERTING MACHINES AND CONVEYING METHOD THUS OBTAINED

ABSTRACT

5 The roller (1) is used for conveying a web or sheet
of paper (20) in paper converting machines, for example, a
rewinding, a winding, an interfolding machine. It
comprises a first outer cylindrical tubular body (2)
equipped with a plurality of radial holes (3), arranged
10 according to substantially longitudinal rows, capable of
rotating with respect to a second inner fixed body (4) co-
axial to it and connected to a suction system. The second
body (4) has tubular cylindrical geometry like the first
body (2) and has a plurality of apertures (5) and two
15 radial boards (7) arranged at opposite sides with respect
to the apertures (5). The inner surface of the first
cylindrical tubular body (2), together with the radial
boards (7) and to the external surface of the second
tubular body (4), define a suction chamber (6) that brings
20 selectively in communication selected rows of holes (3) of
the first cylindrical tubular body (2) with the apertures
(5) of the second tubular body (4) and then with the
suction system of the machine during the relative rotation
of the two bodies. Therefore, a web or sheet of paper (20)
25 adheres to the external surface of the first body (2) only
in the portion P₁P₂ of surface set between the rows of
holes (3') that communicates with the suction chamber
(figure 4).